OIPE

RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/848,909

TIME: 16:17:17

Input Set : A:\00742.060002.SEQLIST.TXT Output Set: N:\CRF3\10292001\I848909.raw

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4 <110> APPLICANT: Collier, R. John
             Sellman, Brett R.
     7 <120> TITLE OF INVENTION: Compounds and Methods for the Treatment
            and Prevention of Bacterial Infection
    11 <130> FILE REFERENCE: 00742/060002
    13 <140> CURRENT APPLICATION NUMBER: US 09/848,909
C--> 14 <141> CURRENT FILING DATE: 2001-05-04
    16 <150> PRIOR APPLICATION NUMBER: US 60/201,800
    17 <151> PRIOR FILING DATE: 2000-04-04
                                                               ENTERED
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    23 <210> SEQ ID NO: 1
    24 <211> LENGTH: 736
    25 <212> TYPE: PRT
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    31 Gln Gly Leu Leu Gly Tyr Tyr Phe Ser Asp Leu Asn Phe Gln Ala Pro
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                                       25
    33 Met Val Val Thr Ser Ser Thr Thr Gly Asp Leu Ser Ile Pro Ser Ser
                                   40
                                                    45
    35 Glu Leu Glu Asn Ile Pro Ser Glu Asn Gln Tyr Phe Gln Ser Ala Ile
                              55
                                                   60
    37 Trp Ser Gly Phe Ile Lys Val Lys Lys Ser Asp Glu Tyr Thr Phe Ala
                           70
                                               75
    39 Thr Ser Ala Asp Asn His Val Thr Met Trp Val Asp Asp Gln Glu Val
                       85
                                           90
    41 Ile Asn Lys Ala Ser Asn Ser Asn Lys Ile Arg Leu Glu Lys Gly Arg
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                                       105
                                                           110
    43 Leu Tyr Gln Ile Lys Ile Gln Tyr Gln Arg Glu Asn Pro Thr Glu Lys
    44 115
                                   120
                                                       125
    45 Gly Leu Asp Phe Lys Leu Tyr Trp Thr Asp Ser Gln Asn Lys Lys Glu
                               135
           130
    47 Val Ile Ser Ser Asp Asn Leu Gln Leu Pro Glu Leu Lys Gln Lys Ser
                           150
                                               155
    49 Ser Asn Ser Arg Lys Lys Arg Ser Thr Ser Ala Gly Pro Thr Val Pro
                                           170
                       165
     51 Asp Arg Asp Asn Asp Gly Ile Pro Asp Ser Leu Glu Val Glu-Gly-Tyr
                   180
                                       185
                                                           190
     53 Thr Val Asp Val Lys Asn Lys Arg Thr Phe Leu Ser Pro Trp Ile Ser
                                                      205
                                   200
               195
     55 Asn Ile His Glu Lys Lys Gly Leu Thr Lys Tyr Lys Ser Ser Pro Glu
     56 210
                               215
                                                   220
    57 Lys Trp Ser Thr Ala Ser Asp Pro Tyr Ser Asp Phe Glu Lys Val Thr
                                               235
                           230
    58 225
     59 Gly Arg Ile Asp Lys Asn Val Ser Pro Glu Ala Arg His Pro Leu Val
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Input Set : A:\00742.060002.SEQLIST.TXT
Output Set: N:\CRF3\10292001\1848909.raw

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61 Ala Ala			HIS VAI	265	. GIU ASII	270	reg ser
62	260		mh Cl				Ang Mha
63 Lys Asn		GIN Ser		ASII IIII	Asp Ser	285	Arg IIII
64	275	-1 ~	280	3 mb			17-1 174 -
65 Ile Ser	Lys Asn	Thr Ser		Arg Thi			val His
66 290			295	n1 . n1	300		O
67 Gly Asn	Ala Glu			Phe Phe		GIA GIA	
68 305		310		_ ~	315		320
69 Ser Ala	Gly Phe		Ser Asn			Ala lle	
70		325		330		_,	335
71 Ser Leu			Glu Arg		Ala Glu		GIY Leu
72	340			345		350	
73 Asn Thr		Thr Ala		Asn Ala	Asn Ile		Val Asn
74	355		360	_	_	365	
75 Thr Gly	Thr Ala	Pro Ile		Val Leu			Leu Val
76 370			375		380		_
77 Leu Gly	Lys Asn	Gln Thr	Leu Ala	Thr Ile		Lys Glu	
78 385		390			395		400
79 Leu Ser	Gln Ile	Leu Ala	Pro Asn			Ser Lys	
80		405		410			415
81 Ala Pro	Ile Ala	Leu Asn	Ala Gln	Asp Asp	Phe Ser		Pro Ile
82	420			425		430	
83 Thr Met	Asn Tyr	Asn Gln	Phe Leu	Glu Leu	ı Glu Lys	Thr Lys	Gln Leu
84	435		440			445	
85 Arg Leu	Asp Thr	Asp Gln	Val Tyr	Gly Asr	ı Ile Ala	Thr Tyr	Asn Phe
86 450			455		460		
87 Glu Asn	Gly Arg	Val Arg	Val Asp	Thr Gly	Ser Asn	Trp Ser	Glu Val
88 465		470	•		475		480
89 Leu Pro	Gln Ile	Gln Glu	Thr Thr	Ala Arg	ı Ile Ile	Phe Asn	Gly Lys
90	•	485		490)		495
91 Asp Leu	Asn Leu	. Val Glu	Arg Arg	Ile Ala	Ala Val	Asn Pro	Ser Asp
92	500			505		510	
93 Pro Leu	Glu Thr	Thr Lys	Pro Asp	Met Thr	Leu Lys	Glu Ala	Leu Lys
94	515		520			525	
95 Ile Ala	Phe Gly	Phe Asn	Glu Pro	Asn Gly	Asn Leu	Gln Tyr	Gln Gly
96 530			535		540		
97 Lys Asp	Ile Thr	Glu Phe	Asp Phe	Asn Phe	Asp Gln	Gln Thr	Ser Gln
98 545		550			555		560
99 Asn Ile	Lys Asn	Gln Leu	Ala Glu	Leu Asr	Ala Thr	Asn Ile	Tyr Thr
100	-	565		57			575
101 Val Le	u Asp Ly	s Ile Ly	s Leu As	n Ala Ly	s Met As	n Ile Le	u Ile Arg
102	58			585		59	
103 Asp Ly			r_Asp_Ar	-	n-Ile-Al	a-Val-G1	y-Ala-Asp-
104	595		60			605	-
105 Glu Se		l Lvs Gl			u Val Il		r Ser Thr
106 61			615	5	62		
107 Glu Gl		u Leu As		p Lvs As			e Leu Ser
108 625	,	63			635	J = 1 = - =	640
100 023		0.5	-				V.V

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109 110	Gly	Tyr	Ile	Val	Glu 645	Ile	Glu	Asp	Thr	Glu 650	Gly	Leu	Lys	Glu	Val 655	Ile	
	Asn	Asp	Arg	Tyr 660		Met	Leu	Asn	Ile 665	ser	Ser	Leu	Arg	Gln 670	Asp	Gly	
	Lys	Thr	Phe 675		Asp	Phe	Lys	Lys 680		Asn	Asp	Lys	Leu 685		Leu	Tyr	
	Ile	Ser 690		Pro	Asn	Tyr	Lys 695		Asn	Val	Tyr	Ala 700		Thr	Lys	Glu	
117	Asn 705		Ile	Ile	Asn	Pro		Glu	Asn	Gly	Asp 715		Ser	Thr	Asn	Gly 720	
		Lys	Lys	Ile	Leu 725		Phe	Ser	Lys	Lys 730	. — -	Tyr	Glu	Ile	Gly 735		
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	<213				36												
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131 132	Gln	Gly	Leu	Leu 20	Gly	Tyr	Tyr	Phe	Ser 25	Asp	Leu	Asn	Phe	Gln 30	Ala	Pro	
133 134	Met	Val	Val 35	Thr	Ser	Ser	Thr	Thr 40	Gly	Asp	Leu	Ser	Ile 45	Pro	Ser	Ser	
135 136	Glu	Leu 50	Glu	Asn	Ile	Pro	Ser 55	Glu	Asn	Gln	Tyr	Phe 60	Gln	Ser	Ala	Ile	
137 138		Ser	Gly	Phe	Ile	Lys 70	Val	Lys	Lys	Ser	Asp 75	Glu	Tyr	Thr	Phe	Ala 80	
139 140	Thr	Ser	Ala	Asp	Asn 85	His	Val	Thr	Met	Trp 90	Val	Asp	Asp	Gln	Glu 95	Val	
141 142	Ile	Asn	Lys	Ala 100	Ser	Asn	Ser	Asn	Lys 105	Ile	Arg	Leu	Glu	Lys 110	Gly	Arg	
143 144	Leu	Tyr	Gln 115	Ile	Lys	Ile	Gln	Tyr 120	Gln	Arg	Glu	Asn	Pro 125	Thr	Glu	Lys	
145 146	Gly	Leu 130	Asp	Phe	Lys	Leu	Tyr 135	Trp	Thr	Asp	Ser	Gln 140	Asn	Lys	Lys	Glu	
	Va]		Ser	Ser	Asp	Asn	Leu	Gln	Leu	Pro	Glu	Leu	Lys	Gln	Lys	Ser	
	145					150				_	155		-		-	160	
		λan	Sar	λκα	T.vc		Δrσ	Ser	Thr	Ser	_	Glv	Pro	Thr	Va 1		
150				-	165	-	-			170		_			175		
151	Asp	Arg	Asp	Asn	Asp	Gly	Ile	Pro		Ser	Leu	Glu	Val		Gly	Tyr	
152				180					185					190			
153	Thr	Val	Asp	Val	Lys	Asn	Lys	Arg	${ t Thr}$	Phe	Leu	Ser	Pro	\mathtt{Trp}	Ile	Ser	
154			195					200					205				
	Asn	Ile		_Glu-	-Lvs-	-Lvs-	-G1-v-			-Lys-	Tvr	-Lvs	-ser-	Ser	Pro	Glu	
156		210		-14	-1-	-1-	215			-1-	- _	220				-	
	Laze		Sar	Пhr	λla	Sar		Dro	ጥኒኒፖ	Ser	Δen		Ġlu	T.vc	Va1	Thr	
	_	1 T D	Set	T 11T	Ата		чэр	110	1 J T	Det		rne	GIU	_y 3	, uı	240	
	225		- 1		T	230	37e 3	a	D	01	235	7	77.2 -	D=-	т с	_	
	GTA	Arg	TTE	Asp		Asn	val	ser	Pro	Glu	Ата	Arg	HIS	PLO		val	
160					245					250					255		

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Input Set : A:\00742.060002.SEQLIST.TXT Output Set: N:\CRF3\10292001\I848909.raw

161 Ala Ala Tyr Pro Ile Val His Val Asp Met Glu Asn Ile Ile Leu Ser 260 265 163 Lys Asn Glu Asp Gln Ser Thr Gln Asn Thr Asp Ser Glu Thr Arg Thr 164 275 280 165 Ile Ser Lys Asn Thr Ser Thr Ser Arg Thr His Thr Ser Glu Val His 295 167 Gly Asn Ala Glu Val His Ala Ser Phe Phe Asp Ile Gly Gly Ser Val 168 305 310 315 169 Ser Ala Gly Phe Ser Asn Ser Asn Ser Ser Thr Val Ala Ile Asp His 325 330 171 Ser Leu Ser Leu Ala Gly Glu Arg Thr Trp Ala Glu Thr Met Gly Leu 340 345 173 Asn Thr Ala Asp Thr Ala Arg Leu Asn Ala Asn Ile Arg Tyr Val Asn 174 355 360 175 Thr Gly Thr Ala Pro Ile Tyr Asn Val Leu Pro Thr Thr Ser Leu Val
 176
 370

 375
 380
 177 Leu Gly Lys Asn Gln Thr Leu Ala Thr Ile Lys Ala Lys Glu Asn Gln 178 385 390 395 179 Leu Ser Gln Ile Leu Ala Pro Asn Asn Tyr Tyr Pro Ser Lys Asn Leu 405 410 181 Ala Pro Ile Ala Leu Asn Ala Gln Asp Asp Phe Ser Ser Thr Pro Ile 182 420 425 183 Thr Met Asn Tyr Asn Gln Phe Leu Glu Leu Glu Lys Thr Lys Gln Leu 184 435 440 185 Arg Leu Asp Thr Asp Gln Val Tyr Gly Asn Ile Ala Thr Tyr Asn Phe 186 450 455 187 Glu Asn Gly Arg Val Arg Val Asp Thr Gly Ser Asn Trp Ser Glu Val 188 465 470 475 189 Leu Pro Gln Ile Gln Glu Thr Thr Ala Arg Ile Ile Phe Asn Gly Lys 485 490 495 191 Asp Leu Asn Leu Val Glu Arg Arg Ile Ala Ala Val Asn Pro Ser Asp 192 500 505 193 Pro Leu Glu Thr Thr Lys Pro Asp Met Thr Leu Lys Glu Ala Leu Lys 194 515 520 195 Ile Ala Phe Gly Phe Asn Glu Pro Asn Gly Asn Leu Gln Tyr Gln Gly 196 530 535 540 197 Lys Asp Ile Thr Glu Phe Asp Phe Asn Phe Asp Gln Gln Thr Ser Gln 198 545 550 555 199 Asn Ile Lys Asn Gln Leu Ala Glu Leu Asn Ala Thr Asn Ile Tyr Thr 200 565 570 201 Val Leu Asp Lys Ile Lys Leu Asn Ala Lys Met Asn Ile Leu Ile Arg 202 580 585 203 Asp Lys Arg Phe His Tyr Asp Arg Asn Asn Ile Ala Val Gly Ala Asp 204 595 600 605 205 Glu Ser Val Val Lys Glu Ala His Arg Glu Val Ile Asn Ser Ser Thr 610 615 620 207 Glu Gly Leu Leu Asn Ile Asp Lys Asp Ile Arg Lys Ile Leu Ser 208 625 630 635 209 Gly Tyr Ile Val Glu Ile Glu Asp Thr Glu Gly Leu Lys Glu Val Ile

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Input Set : A:\00742.060002.SEQLIST.TXT
Output Set: N:\CRF3\10292001\1848909.raw

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645
                              650
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 212 660 665
 213 Lys Thr Phe Ile Asp Phe Lys Lys Tyr Asn Asp Lys Leu Pro Leu Tyr
 214 675 680
 215 Ile Ser Asn Pro Asn Tyr Lys Val Asn Val Tyr Ala Val Thr Lys Glu
 216 690 695
                            700
217 Asn Thr Ile Ile Asn Pro Ser Glu Asn Gly Asp Thr Ser Thr Asn Gly
 218 705 710
                         715 720
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224 <211> LENGTH: 736
225 <212> TYPE: PRT
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232 20
233 Met Val Val Thr Ser Ser Thr Thr Gly Asp Leu Ser Ile Pro Ser Ser
234 35 40
235 Glu Leu Glu Asn Ile Pro Ser Glu Asn Gln Tyr Phe Gln Ser Ala Ile
236 50 55
237 Trp Ser Gly Phe Ile Lys Val Lys Lys Ser Asp Glu Tyr Thr Phe Ala
238 65 70
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239 Thr Ser Ala Asp Asn His Val Thr Met Trp Val Asp Asp Gln Glu Val
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241 Ile Asn Lys Ala Ser Asn Ser Asn Lys Ile Arg Leu Glu Lys Gly Arg
242 100 105 110
243 Leu Tyr Gln Ile Lys Ile Gln Tyr Gln Arg Glu Asn Pro Thr Glu Lys
244 115 120
245 Gly Leu Asp Phe Lys Leu Tyr Trp Thr Asp Ser Gln Asn Lys Lys Glu
246 130 135
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247 Val Ile Ser Ser Asp Asn Leu Gln Leu Pro Glu Leu Lys Gln Lys Ser
248 145 150
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249 Ser Asn Ser Arg Lys Lys Arg Ser Thr Ser Ala Gly Pro Thr Val Pro
250 165 170
251 Asp Arg Asp Asn Asp Gly Ile Pro Asp Ser Leu Glu Val Glu Gly Tyr
252 180 185
253 Thr Val Asp Val Lys Asn Lys Arg Thr Phe Leu Ser Pro Trp Ile Ser
254 195 200
255 Asn Ile His Glu Lys Lys Gly Leu Thr Lys Tyr Lys Ser Ser Pro Glu
256 210 215 220
257 Lys Trp Ser Thr Ala Ser Asp Pro Tyr Ser Asp Phe Glu Lys Val Thr
258 225 230 235
259 Gly Arg Ile Asp Lys Asn Val Ser Pro Glu Ala Arg His Pro Leu Val
260
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                     250
261 Ala Ala Tyr Pro Ile Val His Val Asp Met Glu Asn Ile Ile Leu Ser
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VERIFICATION SUMMARY

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date